

WHAT IS CLAIMED:

1. An isolated polynucleotide selected from the group consisting of:
 - 5 (a) a polynucleotide encoding a polypeptide having an amino acid sequence of SEQ ID NO:2,
 - (b) a polynucleotide which is complementary to the polynucleotide of (a), and
 - (c) a polynucleotide that hybridizes with a polynucleotide of (a) or
 - 10 (b) under stringent conditions.
2. The polynucleotide of claim 1 comprising the nucleotide sequence of SEQ ID NO:1.
- 15 3. A polynucleotide that is an expression vector comprising a polynucleotide of claim 1.
4. A host cell comprising the expression vector of claim 3.
- 20 5. A process for expressing a *MraY* protein of *Pseudomonas aeruginosa* in a recombinant host cell, comprising:
 - (a) transforming a suitable host cell with an expression vector of claim 3; and
 - (b) culturing the host cell of step (a) in conditions under which
 - 25 allow expression of the *MraY* protein from said expression vector.
6. cDNA selected from the group consisting of:
 - (a) a polynucleotide encoding a polypeptide having an amino acid sequence of SEQ ID NO:2,
 - 30 (b) a polynucleotide which is complementary to the polynucleotide of (a), and
 - (c) a polynucleotide that hybridizes with a polynucleotide of (a) or (b) under stringent conditions.

7. cDNA in accordance with claim 6 comprising the nucleotide sequence of SEQ ID NO:1.
8. An expression vector comprising the cDNA of claim 7.
9. A host cell comprising the expression vector of claim 8.
10. A process for expressing a Mray protein of *Pseudomonas aeruginosa* in a recombinant host cell, comprising:
- (a) transforming a suitable host cell with an expression vector of claim 8; and
- (b) culturing the host cell of step (a) in conditions under which allow expression of the Mray protein from said expression vector.
11. A probe for the detection of polynucleotides encoding *Pseudomonas aeruginosa* Mray protein, comprising at least 25 nucleotides of SEQ ID NO:1.
12. A probe in accordance with claim 11 selected from the group consisting of:
- (a) a probe comprising a nucleotide sequence of SEQ ID NO:3; and
- (b) a probe comprising a nucleotide sequence of SEQ ID NO:4.
13. A primer for the detection of polynucleotides encoding *Pseudomonas aeruginosa* Mray protein, comprising at least 25 nucleotides of SEQ ID NO:1.
14. A primer in accordance with claim 13 selected from the group consisting of:
- (a) a primer comprising a nucleotide sequence of SEQ ID NO:3; and
- (b) a primer comprising a nucleotide sequence of SEQ ID NO:4.

15. An isolated polypeptide comprising an amino acid sequence of
SEQ ID NO:2.

16. A cellular extract comprising the polypeptide of claim 15.

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